

Consensus	MKWL	V AFSECIVKIP LR..KTHR.T LS..KN..LNNF LKE..AYRI	(1)	RGSNLT-	60 (2)
boPAG 8	..L.....	TKM...QEA	IRE..OL..ED..	D.QPHS...A.DPDKKFS..	59
boPAG 2	..L.....	IL..KHM..L.E..	RE..L.....	E.Q.....K N---D.KI..	56
boPAG12	..L.....	IL..KHM..L.E..	RE..L.....	E.R.....K K---D.KI..	56
boPAG11	..F.....	IML..TKT...EI	WRE..KL..S..	E.Q.N.M.D D.ASDPK.S..	59
boPAG 9	..I.....	OV...K...G.M.K..	HP.....	F.....	59
boPAG10	..G.....	L..H.I...OM...E..	RERHL.T...SE..HP.N..	KAANDQ.IIY	60
boPAG 4	..RV.....	TK...G.M.....	V.H.....	F.....	59
boPAG 6	..RV.....	NA I.G.T..I	H...P...	F.....	59
boPAG 1	..DD.....	RL..NV V.G.M..	H..S...	F.....	59
boPAG 3	..DD.....	RV...N..V.G.I..	I..HV...	F.....	59
boPAG 5	..L TS...IL..	TKV...K...E.M...	Q.....	S...I...	59
boPAG 7	..RV.....	K...G.M.....	DP...H...	F.....	59
Consensus	..HPLRNI.D..	YVGNITIGT PPQEPQVFD TGSSDLWVPS	I.C.S.AC.T H.RFRH..SS	120 (62)	
boPAG 8	S.Q.K.FQNA V.F.T...	..N.....	VD.Q.PS.SK	K..DPQK.T	119
boPAG 2	I...YL.T A.....	..R.....	AN...C	T.T.P.Y..KT.NPQN..	116
boPAG12	I...K.YL.M A.....	..R.....	AN...C	S.V.P.Y..KT.NLHN..	116
boPAG11	T...AL.M A.....	..K.R.....	..	K.I.P.H..IT.D.HK..	119
boPAG 9	I...MNL V.....	..	..	FCTH-P..SA PVW..QLQ..	118
boPAG10	H...SYK.F S.I..N..	..L.....	..S.....	Y.Q.SS.YK..NS.VPCN..	120
boPAG 4	I...R.F V.....	..I.....	..E.....	F.N.ST.SK..D...LE..	119
boPAG 6	..R.L F.....	..I.....	..A.....	F.N.SS.AA..V...HQ..	118
boPAG 1	T...K.L V.M.....	..A.....	..	DF.T.P.S..V...LQ..	119
boPAG 3	T...K.L I.....	..F.....	..	DF.T.R.S..V...LQ..	119
boPAG 5	I...M.M V...K..	..	..	VF.P.S.S..I...LE..	119
boPAG 7	I...R.I F.....	..I.....	..	D.N.TS.A..V...LQ..	119
Consensus	TFR.TNKTf. I.YGSG.MKG	..L..DTVRIG	..LVSTDQPFfG	LS.EE-.GF. ....-DGVLG	180 (120)
boPAG 8	..QPL.QKIE LV...T...	V.GS..IQ..	N..IVN.I..	..QNQSS.VL EQVPY..I..	179
boPAG 2	S...EVGSPIT .F...IIQ	F.GS.....	N...PE.S..	..L..Y.D SLP.F..I..	174
boPAG12	S..GQ.HQPIs .S..P.IIQ	F.GS.....	N...LK.S..	..Q..Y.D GAP.F..	174
boPAG11	..L.RRP.H .L...M.N.V	AY...K.....	..	..LQQ.F.D NAP.F..	177
boPAG 9	..OP...T .T...S	F.AY.....	..D.....	..VV..Y.LE GRN.Y..	176
boPAG10	..KA...I.N TN.TATSI..	Y.VY.....	N...VA...	..LK..F.D DVP.F..I..	178
boPAG 4	..LSRR..S .T...RIEA	LVVH.....	..D.....Q..	..CL...S.E GMR.F..	177
boPAG 6	..P...R .T...R..	VVVH.....	..D.....	..CLKD.S.K GIP.F..I..	176
boPAG 1	..L...R .T...R..	VVVH.....	..N.....	..I...Y.E GRI.Y..	177
boPAG 3	..L...R .T...R..	VVAH.....	..D.....	..V...Y.E GRAYY..	178
boPAG 5	..SGL.Q..S .T...ST..	F.AY.....	..D.L...E..	..M..H.E DLPF...I..	177
boPAG 7	..P...R .I...R.N	VIAY.....	..D.....	..V...Y.A HKRF...I..	177
Consensus	L.YP..S..G AIPIDNLKN	QGAISEPVFA	FYLS....EG	SVVMFGVDH .YYKGELNW..	240 (180)
boPAG 8	..A..SLAIQ. TT.V.....	REV.....	..SRPENI	..T.....T.H..K.Q.I	239
boPAG 2	..AF.AMGIED T.....WS	H..F.....	..NTNKP..	..R.....I	234
boPAG12	..A..SI.IK. I.....WS	..F.....	..MTCOP..	..R.....I	234
boPAG11	..S..SLAVP. T...K.Q	..I.....	..TRKEN	..L.L...S.H..K..I	237
boPAG 9	..N..NI.FS.....	..	..KNKQ..	..Q.....I	236
boPAG10	..G..RRIT. .N...WK	..V.....	..SQKEN	..NR A.....V	238
boPAG 4	..S.TNI.PS.....YK	..E.....	..KDER	..A...R.....I	237
boPAG 6	..S..NKTFs .F...K..	..E.....	..KDKQ..	..R.....V	236
boPAG 1	..N..NI.FS.....K..	..R.....	..KDER	..R..E...V	237
boPAG 3	..N..NI.FS.....	..	..IL..KDEQ..	..R..E...V	238
boPAG 5	..N..DM.FIT T.....	..F.....	..GKVK--	..T.....V	235
boPAG 7	..N.WNL.WSK .M...K..	..E.....	..NI.....	..T.....V	213
Consensus	P..Q.G.W...MDRISM.R.	VIACS.GC.A	LVDTGTS..I.	GP.RLV.NI. KLI.A.P-.G	300 (239)
boPAG 8	..VT.ARF.QV A.SSMT.NGN	VG..Q..Q..	V.....LLV	..TH..TD.L ...NPN.ILN	299
boPAG 2	..VS.TSH.QI S.MN...NGT	T...C..E..	..L.....M.Y	..TK..T.H ..MN.RL.EN	293
boPAG12	..VS.TRY.QI S.N...NGN	T...R..Q..	..L.....M.H	..T..IT..H ..MN.RH.Q	293
boPAG11	..VS.TKS.LI TV...NGR	..G.EH..E..	..L.....H	..A.P.T.Q .F.H.M.Y	296
boPAG 9	..LIEA.E.RV H...K.T	..D.E..	..H...H.E	..G..N.H R..RTR..FD	295
boPAG10	..VS.V.S.HI NI.S...NGT	V..KR..Q..	SWIR..RLSA W.K.I.SK.Q	..H.R..ID	296
boPAG 4	..LMKA.D.SV H...K.K	..G.K..	..S.D.V	..ST.N.W ..G.T.Q	296
boPAG 6	..LI.V.D.FV R...TK.K	..D.K..	..D.V	..ST.N.W ..R.R.L	295
boPAG 1	..LI.A.D.SV H...IE.K	I...D.K..	..D.V	..R..N.H R..G.I..R	296
boPAG 3	..LIEA.D.II H...K.K	I...GS.E..	..I...A.E	..RK..NK.H ..G.R..RH	297
boPAG 5	..LI.A.E.SL H...K.K	..G.E..	..FY...LL	..R..N.Q ..G.T.Q	294
boPAG 7	..-----T.N.E	..E.A..	..S.N.Q	..G..ID..Q RI.G.T..R	257
Consensus	SE..VSC.AV ..LPSIIFTI	NGI.YPVP..	AYI.KDSRG. C...F.....	---S..ET	360 (295)
boPAG 8	D.OHL..D.I NS..TLLL	..V...PD	Y..QRF.ERI	FIS.OGGTE ILKNLGTs..	359
boPAG 2	..YV...D..KT..FV..N	..D..LRPQ	..I.IQN-S	RSV.OGGTE ..N..SLN	348
boPAG12	..YV...D..KT..FV..N	..D..LRPQ	..T.AQN-F	LSI.HOGTE ..T..SP..	348
boPAG11	..YM.L.PVI SI..PV...	..D.S..RE	..Q.I.NSL	..LST.HGD-D ..T...DQ	348
boPAG 9	..KHY...F.T KY...T.I	..K..MTAR	..F...R	YSA.KENTV ..R.TSR..	351
boPAG10	R.HV...Q.I GT..PAV...	..D...AQ	..QSL.G-Y	FSN.LVRPO ..RVNES..	352
boPAG 4	..HY...S..NS.....	KSNN.R..GQ	..L...R	FTA.KGHQO ..S..ST.H	352
boPAG 6	POYF..S..NT.....	N.RL.AR	..H...R	YTA.KEHRF ..S..PI..	351
boPAG 1	..HY.P.SE. NT...V...	..N...GR	..L..D..R	YTT.QENRV ..S..ST..	352
boPAG 3	..KYYI..S..NT.....	N..C.GR	..VL...R	YSM.QENKV ..S..ST..	353
boPAG 5	..KYYI..F..IS.....	NI..AR	..H...H	YPT.KENTV ..ST..T..	350
boPAG 7	..KYYI..S..NI.....	NI..PR	..L...H	YTT.KEKRV ..RR..T.S	313
Consensus	WILGDVFLRL YFSVFDGRND	RIGLA.AV			388 (323)
boPAG 8	.....Y...N	..P.A			387
boPAG 2	.....I..Q	..K.R	..P..		376
boPAG12	.....G...Q	..R..S	..Q..		375
boPAG11	.....Y...N	..P..			376
boPAG 9	.....A..R	..R..			379
boPAG10	.....N	..P..			380
boPAG 4	.....RK..	..TK..			380
boPAG 6	.....R	..R..			379
boPAG 1	.....Y	..R..			380
boPAG 3	.....V	..R..			381
boPAG 5	.....OV	..R..			377
boPAG 7V..E	..RR..			341

FIG. 1

[illegible]

boPAG 2 4 5 6 7 8 9 10 11 12

Hybrid(d25)	4	1	1	1	1	5	1	1	1	1
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Immuno (d25) 19

RT-PCR(d19)	9					11	3		3	6
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FIG. 3

BoPAG:	1	2	3	4	5	6	7	8	9	10	11	12
1	100 100											
2	73 57	100 100										
3	91 86	74 58	100 100									
4	88 76	73 55	87 73	100 100								
5	86 75	60 61	86 74	85 76	100 100							
6	89 80	73 57	88 78	89 76	84 70	100 100						
7	87 79	73 56	87 78	86 71	85 72	89 77	100 100					
8	68 53	68 55	67 51	67 49	70 54	69 53	71 53	100 100				
9	87 77	74 59	88 78	85 68	85 74	87 74	86 71	68 53	100 100			
10	70 56	72 50	69 55	68 53	71 58	70 57	68 53	71 55	69 57	100 100		
11	74 59	77 62	73 58	73 56	76 62	73 59	75 59	72 56	73 57	72 57	100 100	
12	75 61	90 83	75 60	74 58	77 63	75 59	74 58	70 56	75 60	73 60	79 64	100 100

FIG. 4

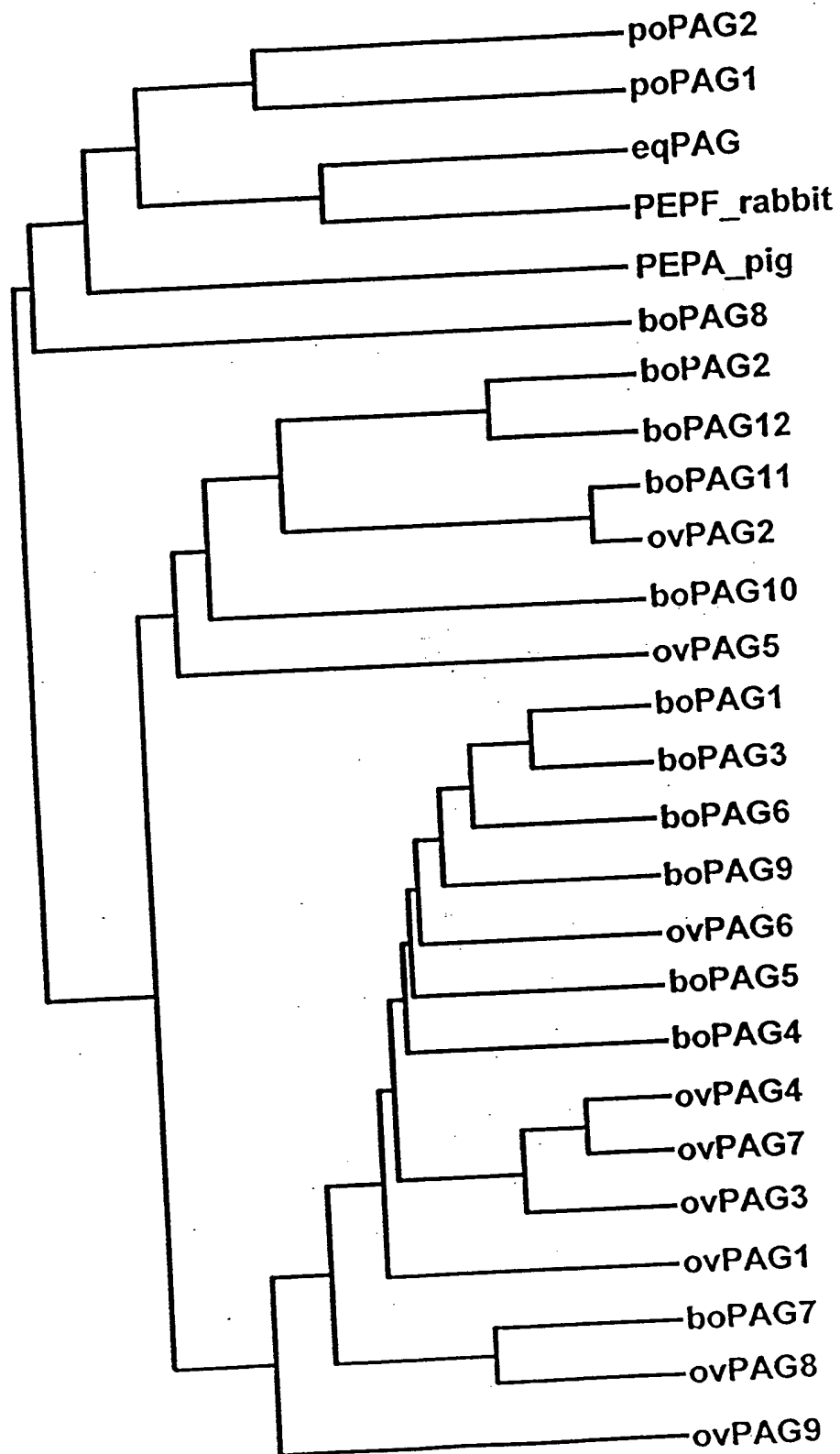


FIG. 5

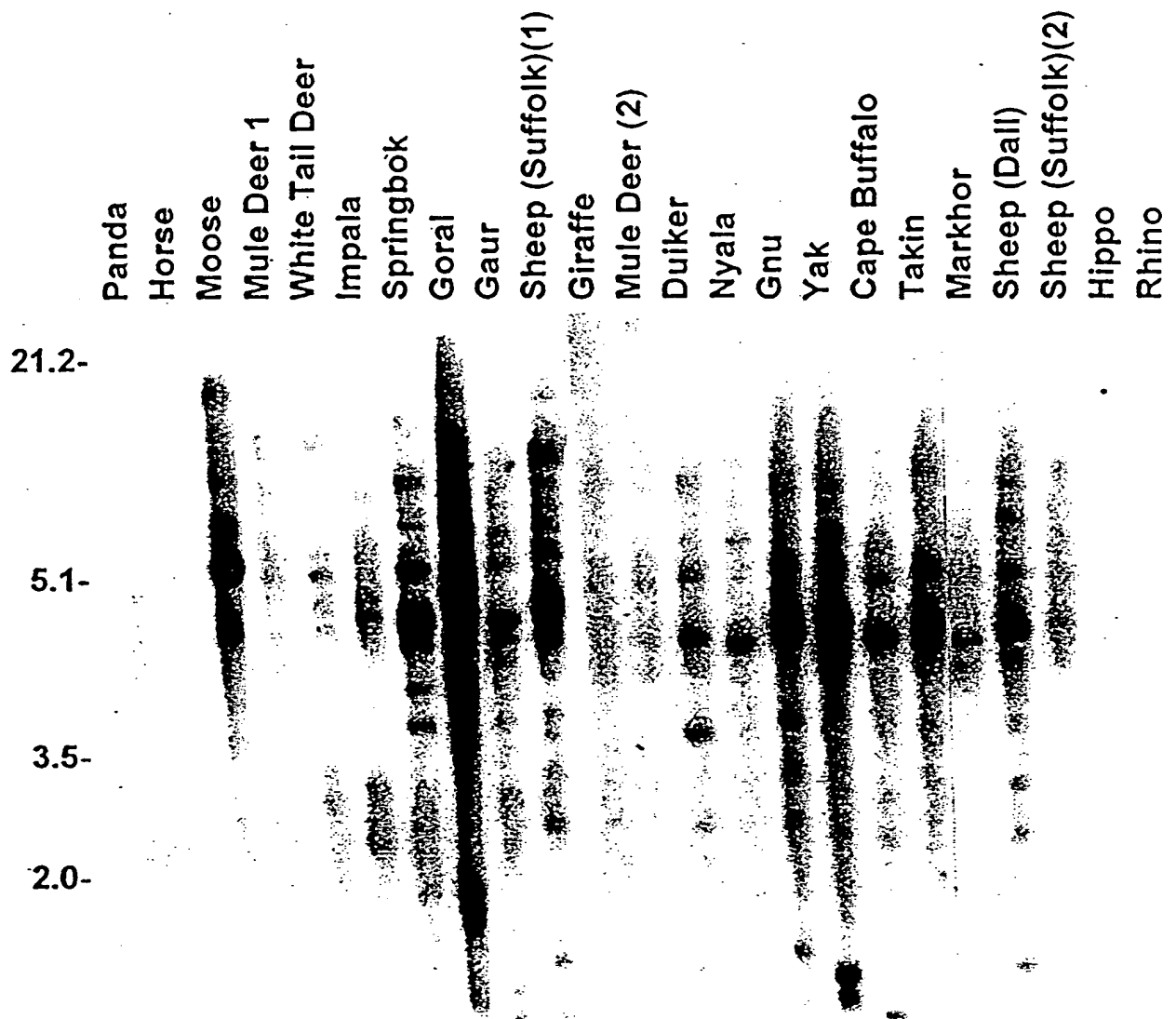


FIG. 6